Appendix H – Supporting Technical Data and Tables for Chapter 3

Table H-1 Description of soil mapping units occurring in the Franklin County, Tennessee area of the Tims Ford Project Lands with corresponding acreage

Soil/Parent Material*	Map Symbol*	Slope %*	Drainage *	Consistence *	Acres**
Baxter cherty silt loam Residuum, cherty limestone					
Hilly phase	Bf	12-25	Good	Firm	9.4
Eroded hilly phase	Bg	12-25	Good	Firm	79.1
Baxter cherty silty clay loam Residuum, cherty limestone					
severely eroded hilly phase	Bn	12-25	Good	Firm	74.5
Baxter cherty silt loam Residuum, cherty limestone					
Rolling phase	Bd	5-12	Good	Firm	70.3
Eroded rolling phase	Be	5-12	Good	Firm	674.2
Baxter cherty silty clay loam Residuum, cherty limestone					
severely eroded rolling phase	Bm	5-12	Good	Firm	73.4
Baxter cherty silt loam Residuum, cherty limestone					
Undulating phase	Bb	2-5	Good	Firm	17.6
Eroded undulating phase	Bc	2-5	Good	Firm	64.2
Steep phase	Bh	25-60	Good	Firm	209.4
Eroded steep phase	Bk	25-60	Good	Firm	236.3
Baxter cherty silty clay loam Residuum, cherty limestone					
severely eroded steep phase.	Bo	25-60	Good	Firm	175.3
Bodine cherty silt loam Residuum, cherty limestone					
Steep phase	Bp	25-60	Excessive	Friable	107.1
Eroded steep phase	Br	25-60	Excessive	Friable	720.5
Severely eroded steep phase.	Bs	25-60	Excessive	Friable	108.1
Bruno Alluvium, mainly sandstone, some limestone	Bu	0-3	Excessive	Loose	6.9

Table H-1 Description of soil mapping units occurring in the Franklin County, Tennessee area of the Tims Ford Project Lands with corresponding acreage

Soil/Parent Material*	Map Symbol*	Slope %*	Drainage *	Consistence *	Acres**
Cumberland and Etowah silty clay loams Old mixed alluvium, chiefly limestone					
eroded undulating phases	Cp	2-5	Good	Firm	176.2
eroded rolling phases	Cr	5-12	Good	Firm	161.1
Cumberland silty clay loam Old mixed alluvium, chiefly limestone					
Severely eroded rolling phase	Cf	5-12	Good	Firm	38.5
Eroded hilly phase	Cg	12-25	Good	Firm	25.5
Severely eroded hilly phase.	Ch	12-25	Good	Firm	3.5
Cumberland and Etowah loams Old mixed alluvium, chiefly limestone					
Eroded undulating phases.	Cm	2-5	Good	Firm	54.9
Eroded rolling phases	Cn	5-12	Good	Firm	13.2
Cumberland clay loam Old mixed alluvium, chiefly limestone					
severely eroded rolling phase	Cd	5-12	Good	Firm	14.4
Decatur silty clay loam Residuum, high-grade limestone					
Eroded rolling phase	Dd	5-12	Good	Very firm	0.5
Undulating phase	Da	2-5	Excessive	Very firm	0.9
Dellrose cherty silt loam Creep material from cherty limestone, moderately phosphatic limestone influence					
Eroded hilly phase	Df	12-25	Excessive	Friable	47.6
Steep phase	Dg	25-60	Excessive	Friable	5.4
Eroded steep phase	Dh	25-60	Excessive	Friable	121.3
Severely eroded steep phase	Dk	25-60	Excessive	Friable	21.7
Eroded rolling phase	De	5-12	Excessive	Friable	0.9
Dewey silty clay loam Residuum, high-grade limestone					
Eroded undulating phase	Dw	2-5	Good	Firm	12.2
Eroded rolling phase.	Dx	5-12	Good	Firm	6.1
Dewey cherty silty clay loam Residuum, high-grade limestone					
Eroded rolling phase	Dp	5-12	Good	Firm	22.0

Table H-1 Description of soil mapping units occurring in the Franklin County, Tennessee area of the Tims Ford Project Lands with corresponding acreage

Soil/Parent Material*	Map Symbol*	Slope %*	Drainage *	Consistence *	Acres**
Dewey cherty silty clay Residuum, high-grade limestone					
Severely eroded rolling phase	Dn	5-12	Good	Firm	8.8
Severely eroded hilly phase	Do	12-25	Good	Firm	6.7
Dickson silt loam Residuum, loess over cherty limestone					
Undulating phase	Dy	2-5	Moderately good	Friable	28.1
Eroded undulating phase	Dz	2-5	Moderately good	Friable	62.6
Eroded rolling phase	D3	5-12	Moderately good	Friable	11.9
Emory silt loam Colluvium or local alluvium, chiefly high-grade limestone material	Ec	2-5	Good	Moderately friable	12.3
Emory cherty silt loam Colluvium or local alluvium, moderately cherty limestone material	Eb	2-7	Good	Moderately friable	19.1
Ennis cherty silt loam Alluvium, chiefly cherty limestone material	Ed	0-3	Good	Friable	1.6
Greendale silt loam Colluvium, chiefly cherty limestone material	Gb	2-7	Moderately good	Friable	4.5
Gullied land, limestone material. A land type on which erosion has formed an intricate pattern of gullies	Gc	5-60			15.3
Hermitage silt loam Old colluvium, chiefly high-grade limestone					
Eroded undulating phase	Hc	2-5	Good	Firm	3.5
Holston loam Old mixed alluvium, chiefly sandstone and shale materials					
Eroded undulating phase	Hg	2-5	Good	Friable	15.4

Table H-1 Description of soil mapping units occurring in the Franklin County, Tennessee area of the Tims Ford Project Lands with corresponding acreage

Soil/Parent Material*	Map Symbol*	Slope %*	Drainage *	Consistence *	Acres**
Humphreys cherty silt loam Alluvium, cherty limestone material	Hk	1-5	Good	Friable	2.3
Huntington fine sandy loam Mixed alluvium, chiefly limestone and sandstone material	Hm	0-3	Good	Friable	1.1
Lindside fine sandy loam Alluvium, chiefly limestone and sandstone material	Lb	0-3	Imperfect to moderately good	Friable	4.3
Melvin silt loam Alluvium, chiefly limestone material	Mb	0-3	Poor	Friable	4.1
Mimosa silty clay Residuum, phosphatic clayey limestone material					
Severely eroded hilly phase.	Mc	12-25	Good	Very plastic	7.6
Mines, pits, and dumps	Me	—	——	———	37.0
Mountview silt loam Residuum, loess over cherty limestone material					
Undulating phase	Mf	2-5	Good	Friable	15.1
Eroded undulating phase	Mg	2-5	Good	Friable	63.4
Riverwash A land type consisting of stony gravely and sandy alluvium	Ra	0-3			1.6
Rockland, limestone A land type that has numerous ledges and outcroppings of limestone					
Hilly and Rolling	Rc	3-25			0.5
Steep and very steep	Rd	25-60+			75.3
Sequatchie fine sandy loam Old mixed alluvium, chiefly sandstone but some limestone					
Undulating phase	Sa	2-5	Good	Friable	4.5
Waynesboro loam Old mixed alluvium, chiefly sandstone but some limestone					
Eroded undulating phase	Wd	2-5	Good	Firm	3.6

*Source: USDA-SCS, 1958. Soil Survey of Franklin County, Tennessee
**ArcInfo Soils Coverage. Jimmie J. Kelsoe. 1999

Table H-2 Description of mapped soils which occur in the Moore County, Tennessee area of the Tims Ford Project Lands

Soil	Map Symbol*	Material	Drainage	Permeability
Barfield-Ashwood-Rock outcrop complex	94	Loamy surface layer Plastic, clay subsoil	Well	Slow
Bodine	61	Variable amount of rock fragments in surface layer Large amount of fragments in subsoil	Well to excessively	Moderately rapid
Dellrose	74	Loamy with significant amountof rock fragments in surface layer and subsoil	Well	Good
Fullerton	63	Loamy surface layer Clayey subsoil	Well	Moderate to moderately slow
Mimosa	41	Loamy surface layer Plastic clay subsoil	Well	Slow

*Source: USDA-NRCS staff in Lynchburg, Tennessee

Impact Rating Form

IMPACT RATING FORM

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*

Date Of Land Evaluation Request: May 28, 1999

Name Of Project: TEMS Ford Land Use Plan

Federal Agency Involved: Tennessee Valley Authority

Proposed Land Use: Recreational or Residential Development

County And State: Franklin and Moore Counties, TN

PART II *(To be completed by SCS)*

Date Request Received By SCS:

Does the site contain prime, unique, statewide or local important farmland? Yes [X] No [ ]
(If no, the FPPA does not apply — do not complete additional parts of this form).

Acres Irrigated: NA | Average Farm Size: 133 AC.

Major Crop(s): CORN

Farmable Land In Govt. Jurisdiction — Acres: 214052 % 59

Amount Of Farmland As Defined in FPPA — Acres: 114906 % 32

Name Of Land Evaluation System Used: FRANKLIN CO. LAND EVALUATION

Name Of Local Site Assessment System:

Date Land Evaluation Returned By SCS: 6-17-99

PART III *(To be completed by Federal Agency)*	Alternative Site Rating Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly		1687	3275	357
B. Total Acres To Be Converted Indirectly		—	—	—
C. Total Acres In Site		1687	3275	357
PART IV *(To be completed by SCS)* **Land Evaluation Information**				
A. Total Acres Prime And Unique Farmland		248	402	139
B. Total Acres Statewide And Local Important Farmland		NA	NA	NA
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted		0.002	0.003	0.001
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value		57	52	57
PART V *(To be completed by SCS)* **Land Evaluation Criterion** Relative Value Of Farmland To Be Converted *(Scale of 0 to 100 Points)*		20	54	35

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(These criteria are explained in 7 CFR 658.5(b))*	Maximum Points	Site A	Site B	Site C	Site D
1. Area In Nonurban Use	15		15	15	5
2. Perimeter In Nonurban Use	10		5	5	5
3. Percent Of Site Being Farmed	20		2	2	10
4. Protection Provided By State And Local Government	20		0	0	0
5. Distance From Urban Builtup Area	15		10	10	5
6. Distance To Urban Support Services	15		10	10	10
7. Size Of Present Farm Unit Compared To Average	10		0	0	0
8. Creation Of Nonfarmable Farmland	10		2	2	2
9. Availability Of Farm Support Services	5		5	5	5
10. On-Farm Investments	20		2	2	2
11. Effects Of Conversion On Farm Support Services	10		0	0	0
12. Compatibility With Existing Agricultural Use	10		5	5	5
TOTAL SITE ASSESSMENT POINTS	160		56	56	49
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland *(From Part V)*	100		20	54	35
Total Site Assessment *(From Part VI above or a local site assessment)*	160		56	56	49
TOTAL POINTS *(Total of above 2 lines)*	260		76	110	84

Site Selected: Date Of Selection: Was A Local Site Assessment Used? Yes [ ] No [ ]

Reason For Selection:

Supporting Technical Data for Section 3.3 Surface Water Quality

Tennessee Water Quality Permitting

TDEC has permitting and inspection rules in place that require wastewater treatment systems to be constructed and operated in such a manner that water quality should not be adversely affected. TDEC also has permitting rules in place that require control of storm water discharges from construction sites.

There are two divisions within TDEC which permit various wastewater treatment systems. The Division of Ground Water Protection permits septic systems serving single family homes and other small flow facilities. The Division of Water Pollution Control (WPC) permits wastewater treatment systems which discharge to waters of the State, which utilize spray irrigation or shallow drip irrigation for effluent disposal or which transport wastewater to another facility for treatment and disposal. WPC also regulates storm water from construction and industrial sites, as well as, other water quality issues.

The Water Quality Control Act, as amended in 1977, allowed the State of Tennessee to receive delegated authority of the National Pollutant Discharge Elimination System (NPDES) permit program. This law provides the permitting and enforcement powers of the Tennessee Division of Water Pollution Control.

In 1992, WPC issued the General NPDES Permit for Storm Water Discharges from Construction Activity to cover water quality problems such as erosion, during the construction phase of a project. This would apply to industrial, residential, recreation, or any other construction project. Coverage under this general permit is required for all projects which will disturb a total of five or more acres of land. Projects less than five acres are not required to get coverage under this permit, but are still required to comply with the Water Quality Control Act.

The General NPDES Permit for Storm Water Discharges from Construction Activity expired September 26, 1997. It is to be replaced with the General NPDES Permit for Discharges of Storm Water Associated with Construction Activities, TNR 10000. Coverage under this new permit will be the same with the exception that sites disturbing less than five acres will also be required to get coverage when the WPC determines it to be necessary to protect water quality. WPC conducts inspections and carries out enforcement activities when necessary to achieve compliance.

Larger subdivision developments are likely to cause more severe erosion problems than construction by individual lot owners. The overall site grading and installation of streets and utilities is likely to cause the vegetation to be removed from much of the site. Revegetation as a means of controlling erosion is usually not considered an option because construction on the individual lots will destroy much of any grass that has been planted. Regular periodic inspection throughout the construction phase would be needed to prevent erosion problems in larger developments.

TDEC also issues Aquatic Resource Alteration Permits (ARAP) for any activity which involves the alteration of waters of the State. These may be issued as a general permit or individual permit. General ARAPs cover the following activities:

- Construction of launching ramps
- Alteration of wet weather conveyances
- Minor road crossings
- Utility line crossings
- Bank stabilization
- Sand and gravel dredging
- Debris removal

Under certain situations, some of the above activities may be required to be permitted under an individual permit. WPC reviews the permit application (when required) and may conduct a site visit prior to the activity taking place.

Once the construction of a project is complete, a permanent wastewater treatment system will be needed. Systems permitted by the Division of Ground Water Protection are described in the rules promulgated by that division. These systems include conventional septic systems and alternative systems, such as low pressure pipe (LPP) and

mound systems. These rules also have provisions that allow variances from the standards where circumstances warrant. The division also approves plats for subdivisions with lots smaller than five acres. Strict adherence to the division's rules in siting, (including reserve area), design and installation of these systems should allow for development to proceed without water quality being compromised by wastewater.

Systems permitted by WPC must be designed according to rules promulgated by that division and, where applicable, following published design criteria. All domestic wastewater systems permitted by WPC must be operated by an appropriately certified operator. Division policy dictates that certain wastewater treatment systems be considered and found to be unsuitable before other systems will be considered. The alternatives to be considered and the order of consideration are as follows:

1. Connection to a municipal/public sewer system or subsurface onsite disposal as regulated by the Division of Ground Water Protection.
2. Onsite disposal by spray or drip irrigation as regulated by WPC.
3. Direct discharge to a waters of the State.

Direct discharge may not be an available option if a stream is a classified as an Outstanding National Resource Water (ONRC) or as a high quality water (Tier 2) or if the stream is listed on the 303(d) list. A 303(d) listed stream is water quality limited and not fully meeting its designated uses. Discharges to any of these streams would not be allowed under the WPC Antidegradation Policy. The 1998 303(d) list includes Dry Creek, Rock Creek, Elk River from Tims Ford Reservoir to Woods Reservoir Dam, and Woods Reservoir. Currently no streams in this portion of the Elk-Shoal Basin appear on the ONRC list. Streams must still have a "tier" determination conducted prior to consideration for a discharge. Again, strict adherence to the division's rules in siting, design, installation, and operation of these systems would allow for development to proceed without water quality being compromised by wastewater. Unless an appropriate wastewater treatment system can be approved by one of these divisions, the proposed development cannot proceed regardless of how that particular parcel is designated.

Wastewater treatment systems can cause pollution either in the form of excessive nutrient loading, or fecal coliform bacteria if they are not properly designed, constructed, and maintained. Because wastewater treatment systems, including any future upgrades, must comply with all state requirements as defined in its NPDES permit, adverse water quality impacts would be minimized.

Table H-3 Listing of terrestrial/wetland wildlife species, by community types, that may occur in the vicinity of Tims Ford Reservoir

Species By:		Forest Lands	Managed Open Lands (Old fields & Ag. fields)	Wetland & Riparian Communities
Common Name	**Scientific Name**			
Amphibians				
Bullfrog	*Rana catesbeiana*			X
Eastern Narrowmouth Toad	*Gastrophryne carolinensis*			X
Green Frog	*Rana clamitans*			X
Wood Frog	*Rana sylvatica*	X		X
Spring Peeper	*Pseudacris crucifer*			X
Woodhouse's Toad	*Bufo woodhousei*	X		
Spotted Salamander	*Ambystoma maculatum*	X	X	
Dusky Salamander	*Desmognathus fuscus*	X		X
Mountain Dusky Salamander	*Desmognathus ochrophaeus*	X		X
Blackbelly Salamander *	*Desmognathus quadramaculatus*	X		X
Longtail Salamander	*Eurycea longicauda*	X		
Spring Salamander	*Gyrinophilus porphyriticus*			X
Northern Slimy Salamander	*Plethodon glutinosus*	X		
Ravine Salamander	*Plethodon richmondi*	X		
Red Salamander	*Pseudotriton ruber*			X
Reptiles				
Black Rat Snake	*Elaphe obsoleta obsoleta*	X		
Eastern Garter Snake	*Thamnophis sirtalis sirtalis*	X	X	X
Northern Ringneck Snake	*Diadophis punctatus edwardsii*	X		
Northern Water Snake	*Nerodia sipedon sipedon*			X
Northern Fence Lizard	*Sceloporus undulatus hyacinthinus*	X		
Five-lined Skink	*Eumeces fasciatus*	X	X	
Broadhead Skink	*Eumeces laticeps*	X		
Common Snapping Turtle	*Chelydra serpentina serpentina*			X
Painted Turtles	*Chrysemys picta spp.*			X
Red-eared Slider	*Trachemys scripta elegans*			X
Eastern Box Turtle	*Terrapene carolina carolina*	X	X	
Birds				
Bald Eagle *	*Haliaeetus leucocephalus*			X

Table H-3 Listing of terrestrial/wetland wildlife species, by community types, that may occur in the vicinity of Tims Ford Reservoir

Species By:		Forest Lands	Managed Open Lands (Old fields & Ag. fields)	Wetland & Riparian Communities
Common Name	**Scientific Name**			
Osprey *	Pandion haliaetus			X
Cooper's Hawk *	Accipiter cooperii	X	X	
Red-shouldered Hawk		X		X
Red-tailed Hawk	Buteo jamaicensis	X	X	
American Kestrel	Falco sparverius		X	
Great Horned Owl	Bubo virginianus	X	X	X
Barred Owl	Strix varia	X		X
Common Screech Owl	Otus asio	X	X	
Barn Owl *	Tyto alba		X	
Turkey Vulture	Cathartes aura	X		
Black Vulture	Coragyps atratus	X		
American Crow	Corvus brachyrhynchos	X	X	
Hairy Woodpecker	Picoides villosus	X		X
Pileated Woodpecker	Dryocopus pileatus	X		X
Yellow-shafted Flicker	Colaptes auratus	X	X	
Downy Woodpecker	Picoides pubescens	X		X
Red-bellied Woodpecker	Melanerpes carolinus	X	X	
Belted Kingfisher	Megaceryle alcyon			X
Great Blue Heron	Ardea herodias			X
Black-crowned Night Heron				X
Green Heron	Butorides striatus			X
Spotted Sandpiper	Actitis macularia			X
Killdeer	Charadrius vociferus		X	X
Wild Turkey	Meleagris gallopavo	X	X	
Bobwhite Quail	Colinus virginianus		X	
Ruffed Grouse	Bonasa umbellus	X		
Mourning Dove	Zenaida macroura		X	
Canada Goose	Branta canadensis		X	X
Wood Duck	Aix sponsa			X
Mallard	Anas platyrhynchos			X
Blue-winged Teal				X

Table H-3 Listing of terrestrial/wetland wildlife species, by community types, that may occur in the vicinity of Tims Ford Reservoir

Species By:		Forest Lands	Managed Open Lands (Old fields & Ag. fields)	Wetland & Riparian Communities
Common Name	**Scientific Name**			
American Black Duck				X
Pied-bill Grebe				X
Northern Cardinal	Cardinalis cardinalis	X	X	
Eastern Bluebird	Sialia sialis		X	
American Goldfinch	Carduelis tristis	X	X	
Grasshopper Sparrow *	Ammodramus savannarum		X	
Blue Jay	Cyanocitta cristata	X		
Carolina Chickadee	Parus carolinensis	X	X	
Red-winged Blackbird	Agelaius phoeniceus		X	X
Rufous-sided Towhee	Pipilo erythrophthalmus	X	X	
American Robin	Turdus migratorius	X	X	
Northern Mockingbird	Mimus polyglottos		X	
Carolina Wren	Thryothorus ludovicianus	X	X	
Indigo Bunting	Passerina cyanea		X	
Tufted Titmouse	Parus bicolor	X		
White-breasted Nuthatch	Sitta carolinensis	X		X
Yellow-billed Cuckoo	Coccyzus americanus	X	X	
Black-and-white Warbler	Mniotilta varia	X		
Wood Thrush	Hylocichla mustelina	X		
Eastern Wood Pewee	Contopus virens	X		
Red-eyed Vireo	Vireo olivaceus	X		
Pine Warbler	Dendroica pinus	X		
Great Crested Flycatcher	Myiarchus crinitus	X		
Mammals				
Whitetail Deer	Odocoileus virginianus	X	X	X
Gray Squirrel	Sciurus carolinensis	X		
Southern Flying Squirrel	Glaucomys volans	X		
Eastern Chipmunk	Tamias striatus	X	X	
Raccoon	Procyon lotor	X		X
Eastern Cottontail Rabbit	Sylvilagus floridanus	X		
Bobcat	Lynx rufus	X		X

Table H-3 Listing of terrestrial/wetland wildlife species, by community types, that may occur in the vicinity of Tims Ford Reservoir

Species By:		Forest Lands	Managed Open Lands (Old fields & Ag. fields)	Wetland & Riparian Communities
Common Name	**Scientific Name**			
Red Fox	Vulpes vulpes		X	
Gray Fox	Urocyon cinereoargenteus	X	X	
Coyote	Canis latrans		X	
Mink	Mustela vison			X
Muskrat	Ondatra zibethicus			X
Opossum	Didelphis virginiana	X	X	
Striped Skunk	Mephitis mephitis	X	X	
Groundhog	Marmota monax	X	X	
White-footed Mouse	Peromyscus leucopus	X	X	
Woodland Jumping Mouse *	Napaeozapus insignis	X	X	X
Meadow Jumping Mouse *	Zapus hudsonius	X	X	X
Deer Mouse	Peromyscus maniculatus	X	X	
Allegheny Woodrat *	Neotoma magister	X		
Southern Bog Lemming *	Synaptomys cooperi	X		X
Eastern Mole	Scalopus aquaticus	X	X	
Least Shrew	Cryptotis parva		X	X
Southeastern Shrew *	Sorex longirostris	X		X
Short-tailed Shrew	Blarina brevicauda	X		X
Gray Bat *	Myotis grisescens			X
Indiana Bat *	Myotis sodalis	X		X
Eastern Small-footed Myotis *	Myotis leibii	X		X

* Species listed as endangered, threatened, or in need of management federally, by the state of Tennessee, or recommended by the Tennessee Wildlife Resources Agency.

Table H-4 Populations of listed plants and animals and uncommon habitats found on Tims Ford Lands Planning Parcels

Category	Quadrangle (Dot Number)*	Parcel No.	Description
State-listed Plant Populations	Capitol Hill (2)	63	**Spreading false-foxglove** (*Aureolaria patula*), listed as threatened in Tennessee, and **southern rein-orchid** (*Platanthera flava var. flava*), listed as special concern in Tennessee, were found at multiple sites within this parcel.
State-listed Plant Populations	Belvidere (2)	15	**Butternut** (*Juglans cinerea*), listed as threatened in Tennessee, and a plant listed as special concern in Tennessee, were found within this parcel.
State-listed Plant Population	Tullahoma (3)	37	A plant listed as special concern in Tennessee was found at several sites within this Parcel
State-listed Plant Population	Lynchburg East (1)	8	A plant listed as special concern in Tennessee was found at several sites within this Parcel
State-listed Plant Population	Lynchburg East (2)	8	A plant listed as special concern in Tennessee was found at several sites within this Parcel
State-listed Plant Population	Lynchburg East (3)	24	A plant listed as special concern in Tennessee was found at this site.
State-listed Animal Populations	Capitol Hill (2)	63	**Southeastern shrews** (*Sorex longirostris*) and **mole salamanders** (*Ambystoma talpoideum*), both listed as in need of management in Tennessee, were captured at multiple sites within this parcel.
State-listed Animal Population	Belvidere (12)	44	**Southeastern shrews** were in this Parcel
Uncommon Habitat	Capitol Hill (1)	63	Extensive Wetland Complex
Uncommon Habitat	Capitol Hill (2)	63	Bottomland Hardwood Forest and Limestone Outcrop
Uncommon Habitat	Tullahoma (1)	33	Mature Deciduous Woodland
Uncommon Habitat	Tullahoma (2)	34	Rock Seepage in Mature Deciduous Woodland
Uncommon Habitat	Tullahoma (3)	37	Rock Seepage in Mature Deciduous Woodland
Uncommon Habitat	Tullahoma (4)	37	Shale Barren
Uncommon Habitat	Belvidere (1)	15	Rock Seepage in Mature Deciduous Woodland
Uncommon Habitat	Belvidere (2)	15	Mature Deciduous Woodland
Uncommon Habitat	Belvidere (3)	20	Limestone Outcrop
Uncommon Habitat	Belvidere (4)	34	Rock Seepage in Forested Riparian Corridor
Uncommon Habitat	Belvidere (5)	37	Rock Seepage in Mature Deciduous Woodland
Uncommon Habitat	Belvidere (6)	36	Mature Deciduous Woodland
Uncommon Habitat	Belvidere (7)	41	Mature Deciduous Woodland

Table H-4 Populations of listed plants and animals and uncommon habitats found on Tims Ford Lands Planning Parcels

Category	Quadrangle (Dot Number)*	Parcel No.	Description
Uncommon Habitat	Belvidere (8)	42	Mature Deciduous Woodland
Uncommon Habitat	Belvidere (9)	42	Forested Riparian Corridor and Mature Deciduous Woodland
Uncommon Habitat	Belvidere (10)	42	Forested Riparian Corridor and Mature Deciduous Woodland
Uncommon Habitat	Belvidere (11)	43	Shrub Community
Uncommon Habitat	Belvidere (12)	43	Shrub Community
Uncommon Habitat	Belvidere (13)	76	Mature Deciduous Woodland
Uncommon Habitat	Belvidere (14)	76	Little Blue Stem Grass Opening
Uncommon Habitat	Belvidere (15)	75	Shrub Community
Uncommon Habitat	Belvidere (16)	76	Forested Riparian Corridor
Uncommon Habitat	Belvidere (17)	45	Shrub Community and Mature Deciduous Woodland
Uncommon Habitat	Belvidere (17)	46	Shrub Community and Mature Deciduous Woodland
Uncommon Habitat	Belvidere (17)	47	Shrub Community and Mature Deciduous Woodland
Uncommon Habitat	Lynchburg East (1)	8	Mature Deciduous Woodland
Uncommon Habitat	Lynchburg East (2)	8	Mature Deciduous Woodland
Uncommon Habitat	Lynchburg East (3)	24	Rock Seepage in Deciduous Woodland
Uncommon Habitat	Lynchburg East (4)	26	Rock Seepage in Deciduous Woodland
Uncommon Habitat	Lynchburg East (5)	26	Forested Riparian Corridor and a 12-foot Waterfall
Uncommon Habitat	Lois (1)	14	Mature Deciduous Woodland
Uncommon Habitat	Lois (1)	15	Mature Deciduous Woodland

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
4-1	PFO/SS1C	0.17	Fringe wetland athead of cove	Bw; Sg; El; Sc; Bc	WH, SR, VD	NWI indicates a PSS1A in the riparian zone of a tributary stream that extends off of the parcel. However, the wetland is at head of cove and does not extend into the upstream riparian zone.
4-2	PFO/SS1C	0.14	Fringe wetland at head of cove	Bw; Sg; El; Sc; Bc	WH, SR, VD	NWI indicates a PSS1A in the riparian zone of a tributary stream that extends off of the parcel. However, the wetland is at head of cove and does not extend into the upstream riparian zone.
4-3	PFO/SS1C	0.23	Fringe wetland at head of cove	Bw; Sy	WH, SR, VD	No wetlands indicated
6-1	PSS1C	0.19	Fringe wetland at head of cove	Ga; Bb; Ca; Ja	WH, SR, VD	No wetlands indicated
6-2	PEM2C	0.07	Small area of water willow near shore	Ja	WH, VD	No wetlands indicated. These monotypic water willow areas occur within the summer pool elevation and may leave no evidence of their existence in the winter.
8-1	PFO1C	0.60	PFO1C at head of cove	Bw; Ga; Sy	WH, SR, CR, NC, VD	NWI indicates a PFO1A in the riparian zone of the tributary stream. However, the wetland does not extend upstream beyond stream mouth cove head.
9-1	PSS/EM1C	0.52	Fringe wetland at head of cove	Bw; Sy; Ja	WH, SR, CR, NC, VD	NWI indicates a PFO1A in the riparian zone of a tributary stream; However, the wetland does not extend upstream beyond stream mouth at head of cove.

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
10-1	PSS1C	1.19	Large wetland filling the head of a wide cove	Bw; Sg; Sy; Rb; Ca	SS, WH, SR, CR, NC, VD	No wetlands indicated
10-2	PEM2C	0.02	Small area of water willow near shore	Ja	WH, VD	No wetlands indicated. These monotypic water willow areas occur within the summer pool elevation and may leave no evidence of their existence in the winter.
10-3	PSS1C	0.09	Fringe wetland at head of cove	Ga; Ja	WH, SR VD	No wetlands indicated
10-4	PSS1C	0.11	Fringe wetland at head of cove	Bw; Wo; Bb; Ja; Ju	WH, SR, VD	No wetlands indicated
15-1	PSS1C	1.75	Shoreline fringe wetland, backed by cleared land.	Bw; Bb; Wg; Je; Hb	SS, WH, SR, CR, NC, VD	No wetlands indicated
16-1	PSS1C	1.86	Narrow, discontinuous fringe of wetlands around point	Bw; Bb; Ja; Ju; Wg; Hy; Lu	SS, WH, SR, CR, VD	No wetlands indicated
16-2	PSS1C	1.52	Shoreline fringe, backed by cleared areas	Bw; Bb; Wg; Ja; Ju	SS, WH, SR, CR, NR, VD	The PSS1C area corresponds to a PEM1C area indicated on the NWI
16-3	PSS1C	0.19	Fringe wetland at the outlet of a roadside swale	Bb	SS, SR, CR, VD	No wetlands indicated
19-1	PSS1C	7.01	Wide shoreline fringe wetland	Bw; Ga; Sy; Cw; Sm; Bb	SS, WH, SR, CR, NR, VD	NWI indicates a small PEM1A at shoreline and PFO1A along stream. Both of these areas fall within the PSS1C identified in the field.
20-1	PSS1C	0.48	Shoreline fringe in one area only. Remaining shoreline is overgrazed pasture land	Bw; Bb	SS, WH, SR, CR, NR, VD	No wetlands indicated

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
21-1	PSS1C	6.39	Shoreline fringe, backed by higher elevation agric. land	Bw; Bb; Wg; Ju	SS, WH, SR, CR, NR, VD	NWI indicates a PFO1A along a stream, but does not indicate a wetland in location of PSS1C identified in field.
21-2	PEM1C	0.46	Shoreline fringe at head of cove	Wg; Ju; Bb; Bw	SS, WH, SR, CR, NR, VD	NWI indicates PFO1A in riparian zone of inflowing stream. However, the wetland does not extend upstream beyond stream mouth at head of cove.
22-1	PSS1C	15.85	Shoreline fringe	Bw; Sg; Sm; Cw; Bb	SS, WH, SR, CR, NR, VD	PSS1C area corresponds to PEM1A area indicated on NWI.
Parcel 23	See NWI map		Extensive wetland complex that includes PFO1, PSS1, and PEM1 wetlands		WH, SR, CR, NR, FA, VD	The NWI boundary mapping is essentially accurate, except that the wetland classes, in some areas, have changed (i.e.PEM1 to PSS1). Areas that showed some deviation (other than a classification change) from NWI are included here as 23-1 through 23-5.
23-1	PFO1A	16.35	Elk River floodplain; Woodedand cleared cattle pasture	Ha; El; Ga; Sx; *Vernonia* sp.; *Bidens* sp.; *Eupatorium coelestinum*	SR, CR, NR, FA	NWI indicates narrow PFO1A along stream in this area. This area in the floodplain of the Elk River is flooded during some storm events and provides some of the same functions as wetlands, although it is not a jurisdictional wetland. There are jurisdictional wetlands adjacent to it.
23-2	PFO1C	18.53	In an area of “pits” and mounds resulting from past sand quarry. Wet areas are in the “pit” areas.	Sy; Wo	WH, SR, CR, NR, FA, VD	NWI indicates two PFO1A and one PSS1A within the area identified in field survey as a PFO1C.

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
23-3	PFO1A	30.56	Elk River floodplain; Relatively undisturbed forested floodplain; Not jurisdictional wetland	Sg; Sy; Wo; Mv; Rm; Liriodendron tulipifera	WH, SR, CR, NR, FA, VD	NWI indicates a PFO1A in southern portion of the area identified as PFO1A in field survey. This area may be occasionally flooded during large storm events and provides some of the same functions as wetlands, although it is not a jurisdictional wetland. There are jurisdictional wetlands adjacent to it.
23-4	PFO1C	3.78	Area occasionally used for cattle grazing. Merges with PFO1A wetland (23-5)	El; Wo; Rb; Rm; Sx	SS, WH, SR, CR, NR, FA,VD	See text in 23-5.
23-5	PFO1A	2.70	Area occasionally used for cattle grazing. Merges with PFO1C wetland (23-4)	El; Wo; Rm; Sx; Mv	WH, SR, CR, NR, FA, VD	NWI indicates a PFO/SS1A along the shoreline in the general area of the PFO1C/PFO1A identified in field survey.
24-1	PFO1A	13.20	Level floodplain; merges into PSS1C shoreline wetland 24-2	Wo; Sm; Bw	WH, SR, CR, NR, VD, FA	No wetlands indicated
24-2	PSS1C	3.05	Shoreline fringe that merges into PFO1A on landward side (24-1)	Bw; Bb; Al	SS, WH, SR, CR, NR, VD	No wetlands indicated
26-1	PFO1C	3.05	On landward side of shoreline PSS1C (26-2), and backed inland by agric. field	Bw; Ga; Sg; Wo; Ca	SS, WH, SR, CR, NR, VD	No wetlands indicated
26-2	PSS1C	2.50	Shoreline fringe PSS1C merges into PFO1C (26-1) on landward side	Bw; Bb; Ca	SS, WH, SR, CR, NR, VD	No wetlands indicated

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
29-1	PFO/ SS1C	0.99	Shoreline fringe around a stream embayment upstream of road culvert.	Sg; El; Bw; Ja	WH, SR, CR, NR, VD	NWI indicates PFO1A in riparian zone of stream at head of embayment. Only a short section of this stream is on the parcel. The PFO/SS1C wetland does not extend upstream into the riparian zone.
29-2	PFO1A	0.39	In riparian zone of stream that flows into the Winchester Springs Branch embayment	Sg; Be; Ga; Bw; Cc	WH, CR, NR, VD	No wetlands indicated.
30-1	PEM2C	0.02	Small area of water willow in standing water at head of cove.	Ja	WH, VD	No wetlands indicated. These monotypic water willow areas occur within the summer pool elevation and may leave no evidence of their existence in the winter.
30-2	PEM1C	0.19	Fringe wetland at head of embayment. Disturbed by cattle. Reduced functions due to impacts.	Sf; Lu; Ju; Ph; Eo	Potential functions: SS, WH, SR, CR, NR, VD	No wetlands indicated
30-3	PEM2C	0.01	Small area of water willow in water near head of cove	Ja	WH, VD	No wetlands indicated. These monotypic water willow areas occur within the summer pool elevation and may leave no evidence of their existence in the winter.
30-4	PEM2C	0.07	Small area of water willow in water along shoreline	Ja	WH, VD	No wetlands indicated. These monotypic water willow areas occur within the summer pool elevation and may leave no evidence of their existence in the winter.

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
30-5	PEM2C	0.06	Small area of water willow in water along shoreline	Ja; Bw	WH, VD	No wetlands indicated. These monotypic water willow areas occur within the summer pool elevation and may leave no evidence of their existence in the winter.
30-6	PSS1C	0.07	Fringe wetland at head of cove	Bw; Bb; Ja; Ju	WH, SR, VD	NWI indicates a PFO1A in the riparian zone of stream upstream of cove head. However, the wetland does not extend upstream of the stream mouth at cove head.
33-1	PSS1C	0.22	Fringe wetland at head of cove	Bw; El; Bb	WH, SR, VD	No wetlands indicated
33 B-1[e]	PSS1C	1.57	Fringe wetland on side and at head of cove	Bw; Bb	SS, WH, SR, CR, NC, VD	No wetlands indicated.
34-1	PFO/ SS1C	1.17	Located on cove shoreline. Only a portion of this wetland, on south side of cove, is on the parcel.	Bw; Ga; El; Sy; Be; Ja	SS, WH, SR, CR, NC, VD	No wetlands indicated.
34-2	PSS1C	0.05	Fringe wetland in cove	Bw	WH, VD	No wetlands indicated
35-1	PFO1A	0.18	Forested wetland in narrow stream bottom at base of road bank. Previously disturbed area	Bw; Sy; Bc; Mv; Lc; Ls; Lv	SR, CR, VD	No wetlands indicated
35-2	PFO1C	0.59	Fringe wetland at head of Lost Creek embayment. Merges with 35-3 PFO1A wetland	Bw; Sy; Cw; Be; El; Je	SS, WH, SR, CR, NC, VD	NWI does not indicate this PFO1C, but does indicate a PFO1A wetland in riparian zone of Lost Creek upstream. The PFO1A wetland does not extend as far upstream as indicated on the NWI.

Table H-5 Wetlands identified during field surveys of selected land management parcels at Tims Ford, 1998-1999

Wetland ID[a]	Class[b]	Approx. Area (acres)	Description	Dominant Vegetation[c]	Probable Functions[d]	National Wetland Inventory Review
35-3	PFO1A	0.37	Wetland in riparian zone of Lost Creek upstream of the embayment. Merges with 35-2	Be; Ha; Bc	WH, SR, CR, NC, VD	NWI indicates PFO1A in riparian zone of Lost Creek in area corresponding to the PFO1A/PFO1C identified in field survey. The PFO1A wetland does not extend as far upstream as indicated on the NWI.
36-1	PSS1C	0.40	Fringe wetland on the edge and at the head of a small cove adjacent to a road bank.	Bw	SS, WH, SR, CR, VD	NWI indicates a PEM1A area that corresponds to the PSS1C area identified in field survey.
38-1	PSS1C	0.022	Very small fringe wetland at head of cove	Bw, Je	VD	No wetlands indicated.
39-1	PSS1C	0.22	Fringe wetland encircling head of cove	Bw, Je	SS, WH, SR, CR, NC, VD	No wetlands indicated.
41A -1[e]	PSS1C	0.44	Long, fringe wetland at head and side of cove	Bw, Je	WH, VD	No wetlands indicated
45-1	PEM/ SS1C	1.09	Wetland is on a wide, level alluvial bench adjacent to stream at head of cove	Je, Bb, Rb, Sy	SS, WH, SR, CR, NC, VD	PFO1A indicated in riparian zone of stream upstream of cove. The wetland identified at the head of the cove does not extend upstream.

a: Bold type indicates a category 1 wetland.

b: Cowardin et. al (1979)

PFO1 - Palustrine forested broad-leaved deciduous

PSS1 - Palustrine scrub-shrub broad-leaved deciduous

PEM1 - Palustrine emergent persistent vegetation

A - Temporarily flooded

C - Seasonally flooded

footnotes continued on next page

c: Al - Alder (Alnus sp.)
Bb - Buttonbush (Cephalanthus occidentalis)
Bc - False nettle (Boehmeria cylindrica)
Be - Box elder (Acer negundo)
Bw - Black willow (Salix nigra)
Cc - Ironwood (Carpinus caroliniana)
Cw - Cottonwood (Populus deltoides)
El - Elm (Ulmus sp.)
Eo - Spikerush (Eleocharis sp.)
Ga - Green ash (Fraxinus pennsylvanica)
Ha - Hackberry (Celtis occidentalis)
Hb - Hibiscus (Hibiscus sp.)
Hy - St. John's wort (Hypericum sp.)
Je - Soft rush (Juncus effusus)
Ju - Rush (Juncus sp.)
Ls - Great Lobelia (Lobelia siphilitica)
Lu - Seedbox (Ludwigia sp.)
Lv - Bugleweed (Lycopus virginicus)
Mv - Nepal grass (Microstegium vimineum)
Ph - Water-pepper (Polygonum hydropiperoides)
Rb - River birch (Betula nigra)
Rm - Red maple (Acer rubrum)
Sc - Sedges (Scirpus spp.)
Sd - Silky dogwood (Cornus amomum)
Sf - Sweetflag (Acorus calamus)
Sg - Sweetgum (Liquidambar styriciflua)
Sy - Sycamore (Platanus occidentalis)
Sm - Silver maple (Acer saccharinum)
Sx - Greenbriar (Smilax sp.)
Wg - Woolgrass (Scirpus cyperinus)
Wo - Water oak (Quercus phellos)
Ww - Water willow (Justicia americana)

d: Functions most likely to be performed in the wetland
SS = Shoreline stabilization
WH = Wildlife habitat
SR = Sediment retention
CR = Contaminant removal
NC = Nutrient cycling
FA = Floodflow alteration functions
VD = Vegetation species and community diversity

Table H-6 Existing Agricultural Licenses

Parcel No.	Acres	Type Use
1	104	Pasture
2	20	Pasture
6	3	Pasture
7	60	Pasture
8	8	Pasture
12	10	Pasture
14	12	Rowcrop
14	20	Pasture
19	10	Pasture
20	15	Pasture
20	38	Rowcrop
20	14	Pasture
20	5	Pasture
20	7	Pasture
22	9	Pasture
22	5	Pasture
26	5	Pasture
26	3	Pasture
28	3	Pasture
28	4	Pasture
28	3	Pasture
28	34	Pasture
28	25	Pasture
28	25	Pasture
31	25	Rowcrop
31	55	Pasture
31	8	Pasture
32	5	Acres
33	17	Pasture
33	15	Pasture
34	25	Pasture
34	19	Rowcrop
34	9	Rowcrop
37	8	Pasture
39	3	Pasture
39	4	Pasture
40	10	Pasture
41	31	Rowcrop
41	8	Pasture
42	59	Rowcrop
42	82	Pasture
44	16	Rowcrop
44	14	Pasture
46	19	Pasture
46	6	Rowcrop
46	11	Pasture
51	21	Rowcrop
51	4	Pasture
57	14	Rowcrop
57	7	Pasture
63	5	Rowcrop
63	10	Rowcrop
63	8	Pasture
64	6	Pasture
67	30	Rowcrop
70	5	Rowcrop
70	3	Rowcrop
71	3	Pasture
72	5	Pasture
75	20	Rowcrop
75	7	Pasture
75	3	Pasture
75	7	Rowcrop
76	63	Rowcrop
78	10	Rowcrop
79	4	Rowcrop
80	3	Pasture
80	3	Pasture
81	10	Pasture
88	2	Pasture
88	1	Pasture

Table H-7 Subdivisions Adjacent to Tims Ford Reservoir

TERDA-Deeded Rights

Subdivision	County	Miles
Beech Hill	Franklin	2.2
Cline Ridge	Franklin	2.0
Dripping Springs	Franklin	2.1
Dry Creek	Franklin	0.4
Elklore	Franklin	1.3
Highland Ridge	Franklin	3.5
Hopkins Point	Franklin	3.8
Leatherwood	Franklin	1.7
Lee Ford	Franklin	1.3
Loop Cabin Sites	Franklin	0.6
Moor-Lin	Franklin	0.6
Moor-Lin	Moore	0.2
Murray Lake	Franklin	0.7
Narrows	Franklin	1.7
Pine Bluff	Franklin	1.8
Robinson Hollow	Franklin	0.8
Taylor Creek East	Franklin	0.8
Taylor Creek West	Franklin	1.5
Rock Creek West	Franklin	0.4
Waters Edge 2	Franklin	0.5
Holiday Hideaway	Moore	0.4
Ridgeville	Moore	5.2
Total		**33.1**
Private Licenses		
Boiling Fork Creek Mile 3.0 L	Franklin	0.2
ERM 154.2 L	Franklin	0.2
ERM 158.0 to 158.7 L	Franklin	0.1
ERM 159.8 R	Franklin	0.4
ERM 162.5 L	Franklin	0.1
Graves Branch	Franklin	0.0
Hurricane Creek Mile 1.0 R	Franklin	0.0
Little Hurricane Creek	Franklin	0.1
Red Mill Bridge, BFCM 3.5 L	Franklin	0.1
Taylor Creek	Franklin	0.1
Winchester Springs Branch	Franklin	0.2
Lost Creek	Moore	0.1
Turkey Creek	Moore	0.0
Total		**1.7**

Private Development

Subdivision	County	Miles
Argyle Estates	Franklin	0.6
C. A. Harriman	Franklin	0.6
Flower Point	Franklin	0.6
Heatherwood	Franklin	1.1
Hickory Hills	Franklin	0.5
Hillwood	Franklin	0.4
Holly Hills	Franklin	0.4
Joe Hawk	Franklin	1.5
Kim Donna	Franklin	0.6
Lake Haven	Franklin	0.4
Lakeview	Franklin	0.4
Lynch	Franklin	0.4
M and R Estates	Franklin	0.4
Oscar Farris	Franklin	0.5
Pineview Pennsula	Franklin	0.5
Elk Acres	Franklin	0.3
Rock Creek Estates	Franklin	0.3
Rogers Haven	Franklin	0.4
Shelly Heights	Franklin	0.3
Springbrook	Franklin	0.3
Timberlake	Franklin	0.3
Waters Edge 1	Franklin	0.5
Westwood Shores	Franklin	0.5
Wild Geese Landing	Franklin	0.3
Winchester Village	Franklin	0.4
Burkhalter	Moore	0.2
Holiday Hideway	Moore	0.3
Lakehaven Shasteen	Moore	1.0
Lee Gray	Moore	0.7
Lost Creek Height Estates	Moore	0.8
Total		**16.1**

Table H-8 Listing of Parcels with Proposed Land-Use Changes

Parcel	Shoreline Miles	Acres	Land-Use Allocation			
			Alternative A	Alternative B	Alternative B1	Alternative C
6-1	0.2	0.4	n/a	n/a	8	n/a
7	1.8	156.5	Developable	7	7	7
8	4.0	189.7	153.8 Ac. Developable	4	4 3	153.8 ac. - 7 5.9 ac. - 4
8-1	0.2	1.2	n/a	n/a	8	n/a
8-2	0.1	0.6	n/a	n/a	8	n/a
12	1.9	79.9	Developable	4	4	7
14	2.5	118.6	Developable	7	4	7
18-1	0.1	0.4	n/a	n/a	8	n/a
18-2	0.1	0.4	n/a	n/a	8	n/a
19	0.9	45.8	Developable	6	6	6
20	14.4	497.9	111.2 Ac. Developable	4	4	111.2 ac. - 7 386.7 - 4
20-1	<0.1	0.1	n/a	n/a	8	n/a
20-2	0.2	0.2	n/a	n/a	8	n/a
20-3	0.1	0.3	n/a	n/a	8	n/a
22-1	0.1	0.3	n/a	n/a	8	n/a
22-2	0.1	0.4	n/a	n/a	8	n/a
22-3	0.2	0.8	n/a	n/a	8	n/a
22-4	0.3	0.9	n/a	n/a	8	n/a
24	1.3	66.9	Developable	4	4	7
26	2.8	140.3	86.8 Ac. Developable	4	4	86.8 Ac. - 7 53.5 Ac. - 4
26-1	0.4	1.4	n/a	n/a	8	n/a
28	5.8	276.2	183.3 Ac. Developable	4	4	183.3 Ac. - 7 92.9 Ac. - 4
28-1	0.2	1.0	n/a	n/a	8	n/a
28-2	0.1	0.3	n/a	n/a	8	n/a
31	1.7	176.1	Developable	7	7	7
32	1.1	89.3	Developable	6	6	6
33	7.2	298.6	140.9 Ac. Developable	4	4	140.9 Ac. - 7 157.7 Ac. - 4
33-1	0.8	0.8	n/a	n/a	8	n/a
34	13.5	419.5	64.2 Ac. Developable	4	4	64.2 Ac. - 7 355.3 Ac. - 4
34-1	0.5	1.4	n/a	n/a	8	n/a
34-2	<0.1	0.1	n/a	n/a	8	n/a
36	4.4	204.6	Developable	7	7	7
37	10.6	376.6	334.2 Ac. Developable	4	4	334.2 Ac. - 7 42.4 Ac. - 4
39	2.0	46.4	28.7 Ac. Developable	4	4	28.7 Ac. - 7 17.7 Ac. - 4
39-1	0.1	0.4	n/a	n/a	8	n/a
39-2	<0.1	0.2	n/a	n/a	8	n/a

Table H-8 Listing of Parcels with Proposed Land-Use Changes

Parcel	Shoreline Miles	Acres	Land-Use Allocation			
			Alternative A	Alternative B	Alternative B1	Alternative C
40	5.2	85.5	55.4 Ac. Developable	4	4	55.4 Ac. - 7 30.1 Ac. - 4
40-1	0.1	0.6	n/a	n/a	8	n/a
40-2	0.1	0.3	n/a	n/a	8	n/a
40-3	0.8	2.7	n/a	n/a	8	n/a
42	2.7	366.3	Developable	4	4	7
44	0.3	57.7	Developable	4	4	7
46	1.5	111.2	Developable	7	7	7
50-1	0.2	0.7	n/a	n/a	8	n/a
50-2	0.2	0.4	n/a	n/a	8	n/a
51	1.2	48.9	Developable	7	7	7
52-1	0.2	0.6	n/a	n/a	8	n/a
52-2	0.2	0.8	n/a	n/a	8	n/a
52-3	0.2	0.5	n/a	n/a	8	n/a
52-4	0.2	0.9	n/a	n/a	8	n/a
57-1	0.3	1.2	n/a	n/a	8	n/a
57-2	0.4	1.5	n/a	n/a	8	n/a
61	0.7	3.1	Developable	6	6	6
66-1	0.1	0.5	n/a	n/a	8	n/a
69-1	0.1	0.2	n/a	n/a	8	n/a
71-1	0.5	1.7	n/a	n/a	8	n/a
71-2	0.2	0.5	n/a	n/a	8	n/a
71-3	0.3	1.4	n/a	n/a	8	n/a
71-4	0.1	0.4	n/a	n/a	8	n/a
73-1	0.3	0.9	n/a	n/a	8	n/a
73-2	0.3	0.7	n/a	n/a	8	n/a
75	3.8	111.6	102.0 Ac Developable	4	4	102.0 Ac. - 7 9.6 Ac. - 4
76	2.2	131.5	Developable	6	6	6
77	4.1	60.7	20.3 Ac. Developable	4	4	20.3 Ac. - 7 40.4 Ac. - 4
77-1	0.1	0.2	n/a	n/a	8	n/a
77-2	0.3	1.1	n/a	n/a	8	n/a
77-3	0.1	0.2	n/a	n/a	8	n/a
78	0.4	12.8	Developable	5	5	5
79A	0.7	8.3	Developable	4	4	6
79B	0.8	48.8	Developable	5	5	6
80	1.3	26.4	Developable	6		6
81-1	0.2	0.8	n/a	n/a	8	n/a
86-1	0.1	0.2	n/a	n/a	8	n/a
86-2	0.2	1.1	n/a	n/a	8	n/a
88-1	0.1	0.4	n/a	n/a	8	n/a
88-2	0.1	0.4	n/a	n/a	8	n/a